

POWER SUPPLY 3-PHASE, 48 V DC DIMENSION C SERIES

CT10.481 SPÄNN.AGG.380-480V,48VDC/5A

- Output current of 5 A
- Up to 92.8% efficiency
- · Integrated primary fuses
- High reliability



PULS

PRODUCT DESCRIPTION

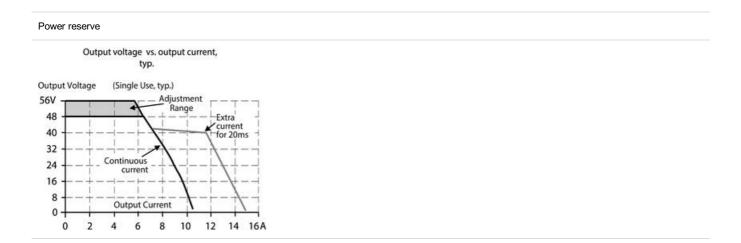
Puls Dimension C is a series of very high quality, reliability and performance.

CT10 has built primary fuses that make it possible to connect the unit without the need for intermediate fuses up to 32 A (UL) which saves space and money. The efficiency is high over a wide load range, which results in reduced power consumption and longer life regardless of load current. An average efficiency of 50% to 100% load is 92% with a peak value of 92.8%.

The short circuit current is 3 x rated current for 20 ms, which helps secondary fuses. Power boost of 20% enables higher current extraction without voltage drops. This is especially useful during start-ups and to bridge the current peaks in the application. Power can be used continually up to +45°C and short periods from +45°C to +60°C.

Active transient ensure operation also in very interference rich electrical environment in addition, CT10 active inrush current protection, which means a very low starting current, even if the unit has been in operation for a longer time. Especially useful for redundant/parallel-connected systems. Power supply connected with 3 stages but can operate on only two phases, taking into account the loading and ambient temperature.

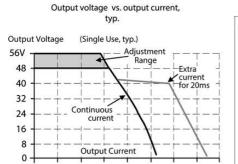
We recommend free space of 40 mm above and 20 mm below the unit, and 5 mm on the sides.



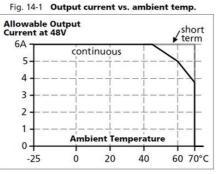
SPECIFICATIONS

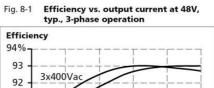
Input voltage range	Wide-range
Number of phases	3
Input voltage AC	380-480 V
Input voltage ac min	323 V AC
Input voltage ac max	576 V AC
Input voltage dc min	450 V DC
Input voltage dc max	780 V DC
Inrush current at 400 V ac typical	4 A
Power Factor at 400 V AC, full load. Typical	0.53
Supply Frequency	50-60 ±6 %
Power consumption at 400 V ac	0.7 A
Type Power Supply	AC-DC
Outout unknow	
Output voltage	48 V DC
Output voltage min	48 V DC
Output voltage max	56 V DC
Output Current	5 A
Effect	240 W
Power Reduction Of 60 To 70 ° C	6 W/°C
Ripple. max	50 mV pp
Temperature Range Without Derating From	-25 °C
Temperature Range Without Derating To	60 °C
Efficiency At 400 V AC. Typical	92 %
Efficiency At 400 V AC, full load. Typical	92.8 %
Lifetime at 400 V ac, full load and +40 ° C	122000 h
MTBF (IEC 61709) 400 V ac, max loan, +40 °C	1051000 h
Width	62 mm
Height	124 mm
Depth	117 mm
Weight	0.75 kg
Clamp type	Screw
Series	Dimension C

Approvals	ABS, CB, CE, CSA US, cRUus, cULus, GL	
Material Protection	Aluminium	
Hold-up time at 400 V AC, full load. Typical.	34 ms	
IP Class	IP20	
Active Transient	Yes	



14 16A





3x480Vac

3

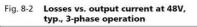
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91

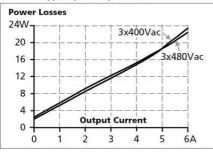
90

89

88



0 2 4 6 8 10 12



Maximal wire length for a magnetic (fast) tripping *):

	0.75mm ²	1.0mm ²	1.5mm ²	2.5mm
C-2A	52m	70m	94m	148m
C-3A	33m	42m	64m	97m
C-4A	19m	23m	33m	48m
C-6A	8m	9m	13m	22m
C-8A	100	-	-	-
C-10A	-		-	-
B-6A	18m	22m	33m	46m
B-10A	4m	5m	10m	13m



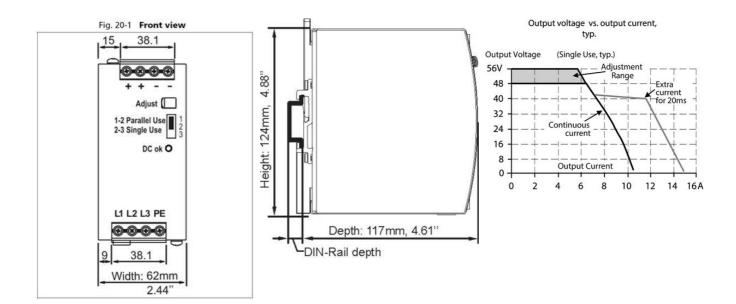
Output Current

4

5

6A







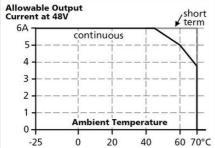


Fig. 8-1 Efficiency vs. output current at 48V, typ., 3-phase operation

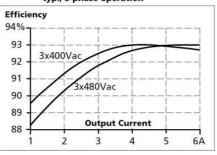
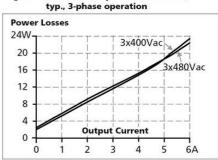


Fig. 8-2 Losses vs. output current at 48V,



Maximal wire length for a magnetic (fast) tripping *): 0.75mm² | 1.0mm² | 1.5mm² | 2.5m

	0.75mm ²	1.0mm ²	1.5mm ²	2.5mm ²
C-2A	52m	70m	94m	148m
C-3A	33m	42m	64m	97m
C-4A	19m	23m	33m	48m
C-6A	8m	9m	13m	22m
C-8A	1075		-	
C-10A	-	-	-	-
B-6A	18m	22m	33m	46m
B-10A	4m	5m	10m	13m



